Technical datasheet

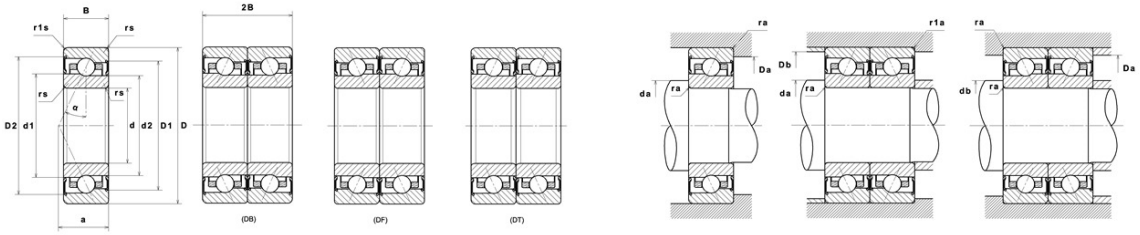
MLE7002HVUJ84S

High precision angular contact ball bearings



High precision angular contact ball bearing, sealed series ML, laminated resin cage centred on outer ring

Visual(s)



Product definition

d	15 mm
D	32 mm
B	9 mm
d1	20.15 mm
d2	18.8 mm
D1	27.15 mm
D2	28.45 mm
a	10 mm
Contact angle α	25 °
rs min	0.3 mm
r1s min	0.3 mm
f0	7.64
Precision class	P4S
Mass	0.03 kg
Brand	SNR

Product performance

Dynamic load, C	3.25 kN
Static load, C0	1.42 kN
Fatigue limit load, Cu	0.09 kN
Nlim (grease)	57,000 rpm
Axial displacement K Factor	1.14
Preload level	8
Preload value	0.08 kN
Axial rigidity	54 N/µm
Radial rigidity	116 N/µm
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.63 Hz
Characteristic outer ring frequency, BPF0	5.48 Hz
Characteristic inner ring frequency, BPFI	7.52 Hz

Abutment dimensions

da min	17.5 mm
db min	17.5 mm
Da max	29.5 mm
Db max	29.5 mm
r1a max	0.3 mm
ra max	0.3 mm
D6	21.6 mm